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ENEC Certification Body registered under ID # 11.

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LICENCE

to use the European Mark



Licence No.: **80585-024**

Date of issue: Wien, 2019 12 20
Rev. No.: 01 Wien, 2023 10 20

OVE the Austrian Electrotechnical Association as signatory to the **"Agreement on the use of a commonly agreed Mark of Conformity for certain electrical equipment complying with European Standards"** hereby grants the right to label the products mentioned hereunder and listed in the Annex with the Mark(s) shown above to the following company

Licensee: **ZG Lighting France**
Route de Paix
27705 Les Andelys
France

Product: **Luminaires for road and street lighting**

Trade Mark: **THORN**

Series/Type: **VOLUPTO CL1**

Basis for this given right is the conformity of the products with the requirements of the relevant Standard(s) as listed in the Annex and the fulfilment of articles 8 and 9 of the ENEC-Agreement by the manufacturer. This licence refers to the tested specimen and to all products manufactured strictly identical to the submitted one.

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

Österreichischer Verband für Elektrotechnik
Head of OVE Certification

Digitally signed by T. Neumayer
Email=t.neumayer@ove.at

Dipl.-Ing. T. Neumayer



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<i>Hersteller</i> <i>Manufacturer</i>	Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom
* <i>Fertigungsstätte(n)</i> <i>Factory location(s)</i>	ZG Lighting SRB doo Ulica Cumtobel br. 1 18000 Nis Serbia
<i>Typenbezeichnung</i> <i>Type reference</i>	VO 12L...CL1... VO 18L...CL1... VO 24L...CL1..., see type code on page 5.
* <i>Prüfbericht</i> <i>Test Report</i>	TR 80585-0043-01 ECS
* <i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i>	OVE EN IEC 60598-1:2022-04-01 OVE EN IEC 60598-1/A11:2023-02-01 ÖVE/ÖNORM EN 60598-2-3:2012-01-01
* <i>Europannorm(en)</i> <i>European Standard(s)</i>	EN IEC 60598-1:2021 EN IEC 60598-1:2021/A11:2022 EN 60598-2-3:2003 + A1:2011
* <i>Ersatz für Zertifikat</i> <i>Superseded licence</i>	80585-024 dated 2019 12 20 Items modified are marked with an asterisk (*)
* <i>Anmerkung(en)</i> <i>Remark(s)</i>	--

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<i>Nennspannung</i> <i>Rated voltage</i>	220-240V, 50/60Hz
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	VO 12L: 1x LED module LEM R12 VO 18L: 1x LED module LEM H18 VO 24L: 2x LED module LEM R12
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules LEM R12 (12 LEDs) or LEM H18 (18 LEDs).
<i>Schutzgrad</i> <i>Degree of protection</i>	IP66
<i>Netzanschluss</i> <i>Supply connection</i>	Pre-wiring
<i>Befestigungsfläche</i> <i>Supporting surface</i>	Normally flammable surface
<i>Schutzklasse</i> <i>Class of protection</i>	CI.I
* <i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	Post top LED lantern with different optics with symmetrical & asymmetrical light distribution. Spigot diameter 60mm or 76mm. PC bowl in SLIM or WIDE design. Canopy and base: corrosion resistant die-cast powder coated aluminium. Enclosure: UV stabilized polycarbonate.
<i>Zusatzinformation</i> <i>Additional information</i>	Classified as risk group 2 (moderate risk) according to EN 62471:2008. The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 1,5m is not expected.

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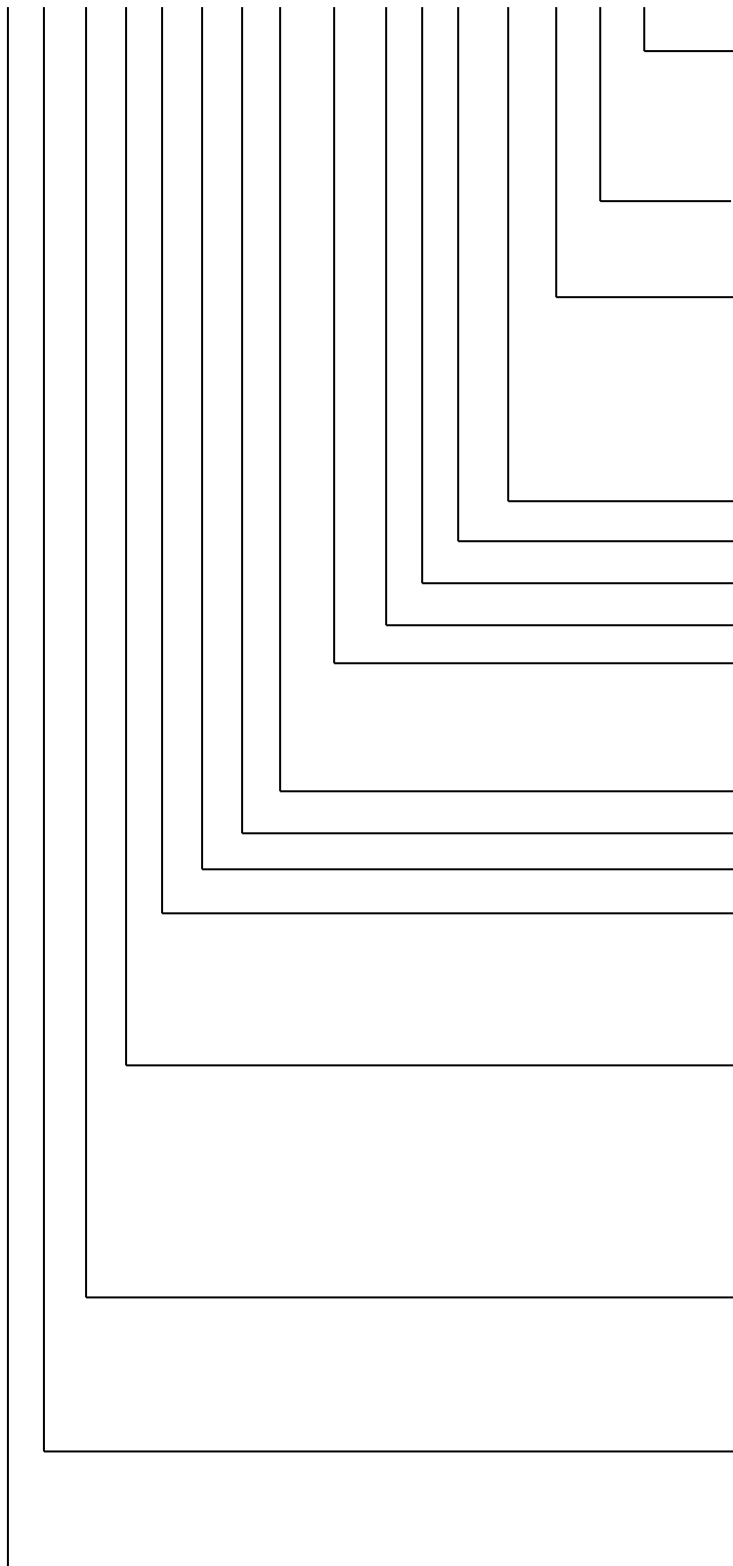
<i>Bauteil Component</i>	<i>Code Code</i>	<i>Hersteller Manufacturer</i>	<i>Typenbezeichnung Type Reference</i>	<i>Konformitätszeichen Mark(s) of conformity</i>
<i>LED control gear</i>	B	Tridonic	LCO 40/200–1050/64	ENEC 11
	B	Tridonic	LCO 60/200–1050/100	ENEC 11
	B	Philips	Xitanium SR 40W	ENEC 05
* <i>Connector</i>	B	Tyco	2213858-1	IMQ
* <i>Internal wiring</i>	B	Omerin	RECSC	VDE
*	B	BLF	300V; 180°C; double insulated SiHHSil U	VDE
	B	BLF	300V; 180°C; double insulated SIL/0100	VDE
	B	BLF	300V; 0,75mm²; 180°C	VDE
<i>LED Module</i>	A*	THORN	LEM R12	ÖVE
	A*	THORN	max. 1050mA, RG2, tc=105°C LEM H18	ÖVE
<i>Terminals</i>	A	Wago	224-112	VDE
	A	Electro Terminal	400V; 24A; T105 SLK/3	ENEC 11
			450V, 24A, T85	
* <i>SPD</i>	B	Citel	MLPC1-230L-R	IMQ
<i>Cable Gland</i>	A	Bimed	BMOS-22	VDE
			IP68, 100°C	
<i>External wiring</i>	A	BizLink	H07RN-F 1,5mm²	HAR
<p>A The component is replaceable with another one, also certified, with equivalent characteristics. A* The component is replaceable with another one according to ETF5-OSM-LUM/DSH 2057 B The component is replaceable if authorised by the test house. C Integrated component tested together with the appliance. D Alternative component.</p>				

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Typecode:

VO ..L...-... .. CL1



Colour

- GY Light grey 150 sanded
- ANT Anthracite 900 sanded
- BK Black sanded
- Rxxxx RALxxxx

Mounting

- T60 Post-Top 60mm
- T76 Post-Top 76mm

Wiring

- D5 DACH, Pre-wired, 5m
- D6 DACH, Pre-wired, 6m
- D8 DACH, Pre-wired, 8m
- W5 Pre-wired, 5m
- W6 Pre-wired, 6m
- W8 Pre-wired, 8m

CL1 Protection class I

SP with Surge Protective Device (optional)

ZU with Zhaga connector Up (optional)

HFX DALI dimmable (optional)

Bi-Power light reduction (optional)

BPL Bi-Power Power Line

LRT Light Reduction Twin Phases

BPxx Bi-Power xh

CLO Constant Light Output (optional)

LV Internal louvre (optional)

Optics

Enclosure

SF Semi Frosted

CL Clear

CL-D Clear with Diffuser

U1 Ulor<1%

Photometric code

722 2200K, CRI 70

727 2700K, CRI 70

730 3000K, CRI 70

740 4000K, CRI 70

827 2700K, CRI 80

830 3000K, CRI 80

840 4000K, CRI 80

Current of LED module

35 350mA

50 500mA

70 700mA

105 1050mA (types 12L and 18L only)

Number of LEDs

12L 12 LEDs

18L 18 LEDs

24L 24 LEDs

Series VOLUPTO

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